Sung Won Kim

List of Publications by Year
in descending order

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143 papers	3,629 citations	172457 29 h-index	149698 56 g-index
147 all docs	147 docs citations	147 times ranked	3311 citing authors

#	Article	IF	Citations
1	The Future of Healthcare Internet of Things: A Survey of Emerging Technologies. IEEE Communications Surveys and Tutorials, 2020, 22, 1121-1167.	39.4	475
2	Cognitive Radio Wireless Sensor Networks: Applications, Challenges and Research Trends. Sensors, 2013, 13, 11196-11228.	3.8	219
3	Multimedia Internet of Things: A Comprehensive Survey. IEEE Access, 2020, 8, 8202-8250.	4.2	194
4	A Churn Prediction Model Using Random Forest: Analysis of Machine Learning Techniques for Churn Prediction and Factor Identification in Telecom Sector. IEEE Access, 2019, 7, 60134-60149.	4.2	169
5	Smart Contract Privacy Protection Using AI in Cyber-Physical Systems: Tools, Techniques and Challenges. IEEE Access, 2020, 8, 24746-24772.	4.2	155
6	A Survey on Resource Management in IoT Operating Systems. IEEE Access, 2018, 6, 8459-8482.	4.2	152
7	Downlink and Uplink Resource Allocation in IEEE 802.11 Wireless LANs. IEEE Transactions on Vehicular Technology, 2005, 54, 320-327.	6.3	117
8	Energy consumption balancing (ECB) issues and mechanisms in wireless sensor networks (WSNs): a comprehensive overview. European Transactions on Telecommunications, 2011, 22, 151-167.	1.2	97
9	A survey on routing protocols supported by the Contiki Internet of things operating system. Future Generation Computer Systems, 2018, 82, 200-219.	7.5	92
10	TinyOS-New Trends, Comparative Views, and Supported Sensing Applications: A Review. IEEE Sensors Journal, 2016, 16, 2865-2889.	4.7	91
11	Internet of Things (IoT) Operating Systems Management: Opportunities, Challenges, and Solution. Sensors, 2019, 19, 1793.	3.8	82
12	Antenna Selection and Designing for THz Applications: Suitability and Performance Evaluation: A Survey. IEEE Access, 2020, 8, 113246-113261.	4.2	69
13	Next-Generation Internet of Things (IoT): Opportunities, Challenges, and Solutions. Sensors, 2021, 21, 1174.	3.8	69
14	5G Mobile Services and Scenarios: Challenges and Solutions. Sustainability, 2018, 10, 3626.	3.2	65
15	Deep Reinforcement Learning Paradigm for Performance Optimization of Channel Observationâ€“Based MAC Protocols in Dense WLANs. IEEE Access, 2019, 7, 3500-3511.	4.2	62
16	Routing protocol for Low-Power and Lossy Networks for heterogeneous traffic network. Eurasip Journal on Wireless Communications and Networking, 2020, 2020, .	2.4	59
17	Two-step multipolling MAC protocol for wireless LANs. IEEE Journal on Selected Areas in Communications, 2005, 23, 1276-1286.	14.0	47
18	Hybrid Deep Learning: An Efficient Reconnaissance and Surveillance Detection Mechanism in SDN. IEEE Access, 2020, 8, 134695-134706.	4.2	47

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19	Internet of Multimedia Things (IoMT): Opportunities, Challenges and Solutions. Sensors, 2020, 20, 2334.	3.8	47
20	Survey, Nomenclature and Comparison of Reader Anti-Collision Protocols in RFID. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2008, 25, 285.	3.2	45
21	Trust management system in wireless sensor networks: design considerations and research challenges. Transactions on Emerging Telecommunications Technologies, 2015, 26, 107-130.	3.9	42
22	LWA in 5G: State-of-the-Art Architecture, Opportunities, and Research Challenges. IEEE Communications Magazine, 2018, 56, 134-141.	6.1	41
23	A Survey on Node Clustering in Cognitive Radio Wireless Sensor Networks. Sensors, 2016, 16, 1465.	3.8	38
24	Performance Evaluation of Application Mapping Approaches for Network-on-Chip Designs. IEEE Access, 2020, 8, 63607-63631.	4.2	38
25	Design of MAC Layer Resource Allocation Schemes for IEEE 802.11ax: Future Directions. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2018, 35, 28-52.	3.2	35
26	A Robust Trust Establishment Scheme for Wireless Sensor Networks. Sensors, 2015, 15, 7040-7061.	3.8	33
27	Intelligent learning automata-based objective function in RPL for IoT. Sustainable Cities and Society, 2020, 59, 102234.	10.4	33
28	A Self-Scrutinized Backoff Mechanism for IEEE 802.11ax in 5G Unlicensed Networks. Sustainability, 2018, 10, 1201.	3.2	31
29	OFDMA-Based Reliable Multicasting MAC Protocol for WLANs. IEEE Transactions on Vehicular Technology, 2008, 57, 3136-3145.	6.3	29
30	A Secure Trust Establishment Scheme for Wireless Sensor Networks. Sensors, 2014, 14, 1877-1897.	3.8	28
31	(ReLBT): A Reinforcement learning-enabled listen before talk mechanism for LTE-LAA and Wi-Fi coexistence in IoT. Computer Communications, 2020, 150, 498-505.	5.1	27
32	Proposition and Real-Time Implementation of an Energy-Aware Routing Protocol for a Software Defined Wireless Sensor Network. Sensors, 2019, 19, 2739.	3.8	25
33	Performance Evaluation of LoRaWAN for Green Internet of Things. IEEE Access, 2019, 7, 164102-164112.	4.2	25
34	LTE in the Unlicensed Spectrum: A Survey. IETE Technical Review (Institution of Electronics and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	3.2	24
35	Q-learning-enabled channel access in next-generation dense wireless networks for IoT-based eHealth systems. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	2.4	23
36	Cognitive backoff mechanism for IEEE802.11ax high-efficiency WLANs. Journal of Communications and Networks, 2019, 21, 158-167.	2.6	23

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37	A Dynamic DL-Driven Architecture to Combat Sophisticated Android Malware. IEEE Access, 2020, 8, 129600-129612.	4.2	23
38	REAS-TMIS: Resource-Efficient Authentication Scheme for Telecare Medical Information System. IEEE Access, 2022, 10, 23008-23021.	4.2	23
39	A Survey on Cyber Security Threats in IoT-Enabled Maritime Industry. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-14.	8.0	23
40	Channel observationâ€based scaled backoff mechanism for highâ€efficiency WLANs. Electronics Letters, 2018, 54, 663-665.	1.0	21
41	Q-Learning Based Fair and Efficient Coexistence of LTE in Unlicensed Band. Sensors, 2019, 19, 2875.	3.8	21
42	The limitations in the state-of-the-art counter-measures against the security threats in H-IoT. Cluster Computing, 2020, 23, 2047-2065.	5.0	21
43	Low complexity intra prediction algorithm for MPEG-2 to H.264/AVC transcoder. IEEE Transactions on Consumer Electronics, 2010, 56, 987-994.	3.6	20
44	Decentralized Predictive MAC Protocol for Ad Hoc Cognitive Radio Networks. Wireless Personal Communications, 2014, 74, 803-821.	2.7	20
45	Opportunistic channel selection MAC protocol for cognitive radio ad hoc sensor networks in the internet of things. Sustainable Computing: Informatics and Systems, 2018, 18, 112-120.	2.2	20
46	An Efficient MAC Protocol for Improving the Network Throughput for Cognitive Radio Networks. , 2009, , .		18
47	DCS: Distributed Caching Strategy at the Edge of Vehicular Sensor Networks in Information-Centric Networking. Sensors, 2019, 19, 4407.	3.8	18
48	Reinforcement learning-enabled Intelligent Device-to-Device (I-D2D) communication in Narrowband Internet of Things (NB-IoT). Computer Communications, 2021, 176, 13-22.	5.1	17
49	Energy-Aware Adaptive Trickle Timer Algorithm for RPL-based Routing in the Internet of Things. , 2018, , .		16
50	Reinforcement Learning-Enabled Cross-Layer Optimization for Low-Power and Lossy Networks under Heterogeneous Traffic Patterns. Sensors, 2020, 20, 4158.	3.8	16
51	One-to-many node-disjoint paths of hyper-star networks. Discrete Applied Mathematics, 2012, 160, 2006-2014.	0.9	15
52	Fuzzy-logic-based channel selection in IEEE 802.22 WRAN. Information Systems, 2015, 48, 327-332.	3.6	14
53	An Intelligent Deterministic D2D Communication in Narrow-band Internet of Things. , 2019, , .		14
54	Internet of Drones: Routing Algorithms, Techniques and Challenges. Mathematics, 2022, 10, 1488.	2.2	14

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55	A review of wireless access vehicular environment multichannel operational medium access control protocols: Quality-of-service analysis and other related issues. International Journal of Distributed Sensor Networks, 2017, 13, 155014771771017.	2.2	13
56	Smart Solutions in Elderly Care Facilities with RFID System and Its Integration with Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 713946.	2.2	13
57	Performance analysis of forward error correcting codes in IPTV. IEEE Transactions on Consumer Electronics, 2008, 54, 376-380.	3.6	12
58	A Reader Anti-collision MAC Protocol for Dense Reader RFID System. , 2009, , .		12
59	Distributed Clustering Algorithm with Load Balancing in Wireless Sensor Network. , 2009, , .		12
60	Opportunistic Hybrid Transport Protocol (OHTP) for Cognitive Radio Ad Hoc Sensor Networks. Sensors, 2015, 15, 31672-31686.	3.8	12
61	SAHCI: Scheduling Approach for Heterogeneous Content-Centric IoT Applications. IEEE Access, 2019, 7, 80342-80349.	4.2	12
62	Performance optimization of QoS-supported dense WLANs using machine-learning-enabled enhanced distributed channel access (MEDCA) mechanism. Neural Computing and Applications, 2020, 32, 13107-13115.	5.6	12
63	Reliability Optimization in Narrowband Device-to-Device Communication for 5G and Beyond-5G Networks. IEEE Access, 2021, 9, 157584-157596.	4.2	12
64	IEEE Access Special Section Editorial: The New Era of Smart Cities: Sensors, Communication Technologies, and Applications. IEEE Access, 2017, 5, 27836-27840.	4.2	11
65	Fair and Efficient Channel Observation-Based Listen-Before Talk (CoLBT) for LAA-WiFi Coexistence in Unlicensed LTE. , 2018, , .		11
66	NoCGuard: A Reliable Network-on-Chip Router Architecture. Electronics (Switzerland), 2020, 9, 342.	3.1	11
67	Artificial Intelligence in Beyond 5G and 6G Reliable Communications. IEEE Internet of Things Magazine, 2022, 5, 73-78.	2.6	11
68	A Distributed Geo-Routing Algorithm for Wireless Sensor Networks. Sensors, 2009, 9, 4083-4103.	3.8	10
69	Enhanced detection with new ordering schemes for V-BLAST systems. IEEE Transactions on Communications, 2009, 57, 1648-1651.	7.8	10
70	A Network Adaptive Fault-Tolerant Routing Algorithm for Demanding Latency and Throughput Applications of Network-on-a-Chip Designs. Electronics (Switzerland), 2020, 9, 1076.	3.1	10
71	An energy efficient and low overhead fault mitigation technique for internet of thing edge devices reliable onâ€chip communication. Software - Practice and Experience, 2021, 51, 2393-2410.	3.6	9
72	Feedback-assisted MAC protocol for real time traffic in high rate wireless personal area networks. Wireless Networks, 2010, 16, 1109-1121.	3.0	8

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73	Routing Layer Solution for Mitigating Frequent Channel Switching in Ad Hoc Cognitive Radio Networks. IEEE Communications Letters, 2015, 19, 1917-1920.	4.1	8
74	OFDMA-Based Reliable Multicast MAC Protocol for Wireless Ad-Hoc Networks. ETRI Journal, 2009, 31, 83-85.	2.0	8
75	Network allocation vector (NAV)-based opportunistic prescanning process for WLANs. Electronics Letters, 2010, 46, 1630.	1.0	7
76	Reliable Wireless Multicasting with Minimum Overheads in OFDM-Based WLANs. , 2008, , .		6
77	Comments on â€œA Class of Fault-Tolerant Multiprocessor Networksâ€• IEEE Transactions on Reliability, 2009, 58, 496-500.	4.6	6
78	Rate-Adaptive MAC Protocol for Wireless Multicast Over OFDMA-Based MANETs. Wireless Personal Communications, 2011, 56, 675-692.	2.7	6
79	MAC protocol for reliable multicast over multi-hop wireless ad hoc networks. Journal of Communications and Networks, 2012, 14, 63-74.	2.6	6
80	Topological properties of folded hyper-star networks. Journal of Supercomputing, 2012, 59, 1336-1347.	3.6	6
81	Heuristic Approach to Select Opportunistic Routing Forwarders (HASORF) to Enhance Throughput for Wireless Sensor Networks. Journal of Sensors, 2015, 2015, 1-10.	1.1	6
82	Efficient and Reliable MPEG-4 Multicast MAC Protocol for Wireless Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 1026-1035.	6.3	6
83	Applications of Cognitive Radio Networks: Recent Advances and Future Directions. International Journal of Distributed Sensor Networks, 2016, 12, 4964068.	2.2	6
84	Deep Reinforcement Learning Paradigm for Dense Wireless Networks in Smart Cities. EAI/Springer Innovations in Communication and Computing, 2020, , 43-70.	1.1	6
85	Blockchain-based green big data visualization: BGbV. Complex & Intelligent Systems, 2022, 8, 3707-3718.	6.5	6
86	Trends, Issues, and Challenges in the Domain of IoT-Based Vehicular Cloud Network. Unmanned System Technologies, 2020, , 49-64.	1.0	6
87	A Blockchain Model for Trustworthiness in the Internet of Things (IoT)-Based Smart-Cities. EAI/Springer Innovations in Communication and Computing, 2020, , 1-19.	1.1	6
88	An Efficient Variable Channel Allocation Technique for Wireless Local Area Network (WLAN) IEEE802.11 Standard. , 2009, , .		5
89	A secure trust establishment in wireless sensor networks. , 2011, , .		5
90	LTE or LAA: Choosing Network Mode for My Mobile Phone in 5G Network. , 2017, , .		5

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91	An Admission Control Mechanism for 5G LWA. Sustainability, 2018, 10, 1999.	3.2	5
92	Adaptively scaled back-off (ASB) mechanism for enhanced performance of CSMA/CA in IEEE 802.11ax high efficiency WLAN. , 2018, , .		5
93	RIATA: A Reinforcement Learning-Based Intelligent Routing Update Scheme for Future Generation IoT Networks. IEEE Access, 2021, 9, 81161-81172.	4.2	5
94	A Cross-Layer-Based Routing Protocol for Ad Hoc Cognitive Radio Networks. International Journal of Distributed Sensor Networks, 2015, 2015, 1-7.	2.2	5
95	An analysis of channel access delay in synchronized MAC protocol for cognitive radio networks. Transactions on Emerging Telecommunications Technologies, 2012, 25, n/a-n/a.	3.9	4
96	Adaptive Window Size-Based Medium Access Control Protocol for Cognitive Radio Wireless Sensor Networks. Journal of Sensors, 2016, 2016, 1-9.	1.1	4
97	Extended Kalman Filter-Based Power Line Interference Canceller for Electrocardiogram Signal. Big Data, 2022, 10, 34-53.	3.4	4
98	An Efficient Algorithm for Mapping Deep Learning Applications on the NoC Architecture. Applied Sciences (Switzerland), 2022, 12, 3163.	2.5	4
99	Dynamic rate adaptation for wireless multicast. , 2009, , .		3
100	An Enhanced Synchronized MAC Protocol for Cognitive Radio Networks. , 2011, , .		3
101	Quality of service analysis for multimedia traffic using DSR, AODV and TORA over Wi-Media ultra wide band. , 2015, , .		3
102	System-Level Performance Analysis of Cooperative Multiple Unmanned Aerial Vehicles for Wildfire Surveillance Using Agent-Based Modeling. Sustainability, 2022, 14, 5927.	3.2	3
103	An Efficient MAC Protocol for Throughput Enhancement in Dense RFID System. , 2009, , .		2
104	Throughput Enhancement in Cooperative Wireless Ad Hoc Networks. , 2014, , .		2
105	Modified GroupCast retries block acknowledgement scheme in IEEE 802.11aa standard-based for multimedia applications. , 2014, , .		2
106	The new Petersen-torus networks. Journal of Supercomputing, 2015, 71, 894-908.	3.6	2
107	Congestion control routing using optimal channel assignment mechanism in wireless mesh network. , 2017, , .		2
108	I-DTMC: An Integrated-Discrete Time Markov Chain Model for Performance Analysis in Future WLANs. , 2017, , .		2

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109	SNR-based relay selection in cooperative wireless ad hoc networks. International Journal of Ad Hoc and Ubiquitous Computing, 2018, 28, 45.	0.5	2
110	Machine learning-enabled Internet of Things for medical informatics. , 2021, , 111-126.		2
111	An Analytical Approach to Opportunistic Transmission under Rayleigh Fading Channels. International Journal of Distributed Sensor Networks, 2015, 11, 725198.	2.2	2
112	A MAC Protocol for CR-WSN without a Dedicated Common Control Channel. International Journal of Distributed Sensor Networks, 2015, 11, 982408.	2.2	2
113	One-to-All Broadcasting of Even Networks for One-Port and All-Port Models. ETRI Journal, 2009, 31, 330-332.	2.0	2
114	Reliable Multicast MAC Protocol for Wireless Ad Hoc Networks. Lecture Notes in Computer Science, 2007, , 276-284.	1.3	2
115	Retransmission Decision Method for Wireless Multicast in Ad-Hoc Networks. IEICE Transactions on Communications, 2011, E94-B, 580-582.	0.7	2
116	Towards Data-Driven Control of QoS in IoT: Unleashing the Potential of Diversified Datasets. IEEE Access, 2021, 9, 146068-146081.	4.2	2
117	Learning-Based Resource Management for Low-Power and Lossy IoT Networks. IEEE Internet of Things Journal, 2022, 9, 16006-16016.	8.7	2
118	An Optimized Hyperparameter of Convolutional Neural Network Algorithm for Bug Severity Prediction in Alzheimerâ€™s-Based IoT System. Computational Intelligence and Neuroscience, 2022, 2022, 1-14.	1.7	2
119	Adaptive cross-layer packet scheduling method for multimedia services in wireless personal area networks. Journal of Communications and Networks, 2006, 8, 297-305.	2.6	1
120	Next Generation Delay and Performance Measuring Algorithm for an Overall Network. , 2008, , .		1
121	Fault Diameter of Even Networks. , 2008, , .		1
122	Energy consumption balancing in Wireless Sensor Networks. , 2010, , .		1
123	Broadcasting Algorithms of Three-Dimensional Petersen-Torus Network. Journal of Applied Mathematics, 2014, 2014, 1-10.	0.9	1
124	Some properties and algorithms for the hyper-torus network. Journal of Supercomputing, 2014, 69, 121-138.	3.6	1
125	A breakthrough in multi-hop wireless multimedia sensor networking protocols. International Journal of Distributed Sensor Networks, 2017, 13, 155014771769888.	2.2	1
126	Machine Learning and LPWAN Based Internet of Things Applications in Healthcare Sector during COVID-19 Pandemic. Electronics (Switzerland), 2021, 10, 1615.	3.1	1

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127	Resource Allocation Based on Traffic Load over Relayed Wireless Access Networks. Lecture Notes in Computer Science, 2005, , 441-451.	1.3	1
128	Multi-user Diversity for IEEE 802.11 Infrastructure Wireless LAN. Lecture Notes in Computer Science, 2006, , 214-223.	1.3	1
129	MAC protocol for resource allocation in hotspot microcell. Electronics Letters, 2004, 40, 1426.	1.0	0
130	Link-adaptable polling-based MAC protocol for wireless LANs. , 0, , .		0
131	Opportunistic Scheduling with Statistical Fairness Guarantee in Wireless Networks. , 2007, , .		0
132	Overhead reduction in rate-adaptive MAC over OFDM-based wireless networks. Electronics Letters, 2008, 44, 1312.	1.0	0
133	Efficient MAC Protocol for Subcarrier-Wise Rate Adaptation over WLAN. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	0
134	Energy consumption balancing in Wireless Sensor Networks. , 2010, , .		0
135	Efficient Retransmission Methods in Wireless MAC Protocol for Multicast. Wireless Personal Communications, 2012, 63, 613-626.	2.7	0
136	A new opportunistic routing forwarders selection scheme to enhance throughput for wireless networks. , 2015, , .		0
137	A reliable and scalable groupCast block acknowledgement scheme for video multicast over IEEE 802.11aa. Journal of Intelligent and Fuzzy Systems, 2018, 35, 5853-5865.	1.4	0
138	Emerging Technologies for Future Sensor Networksâ€"Selected Papers from ICGHIT 2019. Sensors, 2019, 19, 3854.	3.8	0
139	Power-Efficient Packet Scheduling Method for IEEE 802.15.3 WPAN. Lecture Notes in Computer Science, 2005, , 462-472.	1.3	0
140	Opportunistic Packet Scheduling over IEEE 802.11 WLAN. Lecture Notes in Computer Science, 2006, , 399-408.	1.3	0
141	Link-Adaptive MAC Protocol for Wireless Multicast. IEICE Transactions on Communications, 2009, E92-B, 3939-3941.	0.7	0
142	A Breakthrough in Multihop Wireless Multimedia Sensor Networking Protocols. International Journal of Distributed Sensor Networks, 2015, 11, 921040.	2.2	0
143	Reselling Spectrum Information to the Cognitive Users by Maintaining Spectrum Database. Advanced Science Letters, 2015, 21, 1681-1683.	0.2	0